

# **ATTACHMENT IV**

## **Data Validation Criteria**

Data Quality Objectives Process for Bis(2-ethylhexyl)phthalate. Step 3 – Data Validation

Bis(2-Ethylhexyl)Phthalate Special Study			
QC Type	Batch Requirement	Acceptance Criteria	Corrective Action
Method Blank	1 per batch.	Bis(2-ethylhexyl)phthalate at a concentration of $\leq 1.5 \mu\text{g/L}$ . (3 SD for detected blank values from last 12 method blanks)	Reanalyze method blank to confirm. If concentration still greater than $1.5 \mu\text{g/L}$ and $>$ than 1/10 of associated sample concentration, qualify associated sample result with a 'Q'.
Surrogate	All samples.	Recoveries as specified by the SOP.	Flag with "D", if outside QC limits.
LCS	1 per batch. Bis (2-ethylhexyl) phthalate at a concentration of $1 \mu\text{g/L}$	$\pm 50\%$ recovery.	If calibration check meets QC criteria and LCS recovery outside of acceptance criteria, flag LCS analyte with "N".
Spike Blank (QC Check Standard)	1 per batch. Concentration set at the calibration mid-level.	Recoveries between 8%-158%.	Flag Spike Blank with "N", if recoveries are outside control limits.
MS/MSD	1 per batch or 10% of samples. Spike concentration set at $25 \mu\text{g/L}$ for bis(2-ethylhexyl)phthalate.	Recoveries between 8%-158%. Precision $\leq 124 \text{ RPD}$ .	Flag spiked sample and base with "N", if recoveries are outside control limits and with a '*' if precision $> 124 \text{ RPD}$ . Qualify associated sample result with a 'Q'.
Duplicate	All samples analyzed in triplicates (Sample and two duplicates).	Precision $\leq 148 \text{ RPD}$	Sample and duplicates invalidated and qualified with a 'Q' if precision for either or both duplicates is $> 148 \text{ RPD}$ . Qualify associated sample result with a 'Q'.